A-1. Materiale noi, testare, modelare

Lucrări publicate

Grimberg R., Savin A., Steigmann R., Andreescu A., Barsanescu P.D., Curtu I., Improving of the probability of detection and characterization of delamination in CFRP by data fusion; correlations with material's mechanical properties, 4th European-American Workshop on Reliability of NDE, BAM – Berlin, Germany – June 24^{th} – 26^{th}, 2009

Grimberg R., Savin A., Steigmann R., Bruma A., Barsanescu P.D., Ultrasound and eddy current data fusion for evaluation of carbon-epoxy composite delaminations, The British Institute of Non-Destructive Testing, Vol. 51, No. 1, January 2009, p. 25-32, *BDI*: DOI:10.1784/insi.2009.51.1.25

Grimberg R., Savin A., Steigmann R., Barsanescu P.D., Leitoiu S., Nondestructive evaluation of disbonding in composite sadwich materials with honeycomb core and CFRP coating, Buletinul Institutului Politehnic "Gh.Asachi" din Iasi, tom LX(LIX), fasc. 3, Sect. SIM, 2009, p. 26-30, prezentat la 7th Int. Congress in Materials Sci. and Eng., Iasi, May 2009

M. Mareş, V. Bulancea, D. Condurache – Microstructure and Wear Resistance of Steel Surfaces Hardened by Centrifuged Balls Processing, Bul. I.P.Iaşi, tom LV (LIX), fasc.2, secția Matematică, Mecanică Teoretică, Fizică, 2009, pg. 49÷54.

Barsanescu P.D., Grimberg R., Carlescu P., Generation of Residual Stresses in Composites, Proc. of the 9th Biennial ASME Conference on Engineering Systems Design and Analysis, ESDA08, July 7-9, 2008, Haifa, Israel, Section Advanced Materials, p. 1-6

B. Leițoiu, R. Comăneci, M. Mareş, V. Goanță, "On the Elastic Moduli of Power Plant Steel after Long-Term Service Exposure at Elevated Temperature", Analele Univ. "Dunărea de Jos", Galați, f. XIV, 2008, pg.135÷138.

M. Mareş, V. Goanță, B. Leițoiu, R. Comăneci, "Some Issues on the Room Temperature Mechanical Properties of Power Plant Steel after Long-Term Service Exposure", Analele Univ. "Dunărea de Jos", Galați, f. XIV, 2008, pg.139÷142.

M. Mares, V. Goanta, B. Leitoiu, R. Comaneci, „Some issues on the room temperature mechanical properties of power plant steel after long-term service exposure", The annals of "Dunarea de Jos" University of Galati, Fascicle XIV, Mechanical Engineering, ISSN 1224-5615, , pg. 139-142, 2008

B. Leițoiu, R. Comăneci, M. Mareş, V. Goanță, „On the elastic moduli of power plant steel after long-term service exposure at elevated temperature", The annals of "Dunarea de Jos" University of Galati, Fascicle XIV, Mechanical Engineering, pg. 135-138, ISSN 1224-5615, 2008

M. Mareş, B. Leițoiu - Some Issues in Regard of the Experimental Shear Modulus Determination for Unidirectional Composite Materials, Bul. I.P.Iaşi, tom LIII (LVII), fasc.3, secția Ştiința şi Ingineria Materialelor, 2007, pg.219÷226.

M. Mareş, D. Condurache, V. Bulancea - The Influence of Centrifuged Balls Hardening on the Wear Resistance of Some Cast Iron Surfaces, Bul. I.P.Iaşi, tom LIII (LVII), fasc.3, secția Ştiința şi Ingineria Materialelor, 2007, pg.227÷230.

B. Leiţoiu, M. Mareş, E. Leițoiu - Considerații cu privire la aplicarea testului de forfecare Iosipescu pentru studiul proprietăților materialelor compozite, Conf. Nat. de Mecanica Solidelor, ed. XXXI, Chişinău, 27-29 sept. 2007, pg. 267÷270.

M. Mareş, B. Leițoiu - Determinarea modulului de forfecare al compozitelor unidirecționale folosind încercarea de tracțiune dezaxată, Conf. Nat. de Mecanica Solidelor, ed. XXXI, Chişinău, 27-29 sept. 2007, pg. 293÷296.

M. Mareş, A. Teşoi - Some Issues on the Numerical Modeling of Particulate Reinforced Composite Materials, Bul. I.P.Iaşi, tom LII (LVI), Fasc.6B, secția Construcții de Maşini, 2006, pg.227÷236.

M. Mareş, D. Condurache, V. Bulancea - On the Influence of Hardening by Plastic Deformation, on the Cast Iron Wear Resistance, Conf. Nat. de Fizică Aplicată, Iaşi, dec. 2006.

A.Savin, R Steigman,R.Grimberg, , V.Palihovici,V. Goanţă, A. Andreescu, ”Evaluation of Fatigue at AISI 316 L austenitic Steels using eddy Curent Microsensors Array”, B.I.P. Iaşi tom LI(LV), fasc 4, Stiinta materialelor 2005, pag. 246-257

V. Palihovici, V. Goanta, “Modelarea degradarilor la oboseala a otelurilor austenitice utilizate in centrale nucleare si evaluarea lor nedistructiva prin procedee electomagnetice si de ultrasunete”, Revista de Politica Stiintei si Scientonomiei, 2005, ISSN 1582-1218

V.Palihovici,V. Goanţă ,R.Grimberg, A.Savin, R Steigman, A. Andreescu, ”Probabilistic model for Fatigue Accumulation in superconductor magnets from ITER reactor”, B.I.P. Iaşi tom LI(LV), fasc 3, Stiinta materialelor 2005, pag. 15-22.

B. Leiţoiu, M. Antohe, M. Mareş - A Iosipescu Thin Specimen Setting Variant For Shear Study, Bul. I.P.Iaşi, tom LI (LV), fasc.3, secția Ştiința şi Ingineria Materialelor, 2005, pg.161÷164.

M. Mareş, B. Leițoiu - The Application of Iosipescu Shear Test for Accurate Determination of In-Plane Shear Modulus, for Metal Matrix Composites, Bul. I.P.Iaşi, tom LI (LV), fasc.3, secția Ştiința şi Ingineria Materialelor, 2005, pg.165÷172.

M. Mareş, B. Leițoiu - Iosipescu Shear Test as Applied to Some Composite Materials, Bul. I.P.Iaşi, tom L (LIV), fasc.6B, secția Construcții de Maşini, 2004, pg.185÷190.

V.Palihovici, V. Goanţă ,R.Grimberg, A.Savin, R Steigman, A. Andreescu, ”Nonlinear accumulation of fatigue at Zr-2,5%Nb alloy in the presence of hydrogen and hydrides”, Buletinul Institutului Politehnic Iasi, Tomul L(LIV), 2004, pg. 135-141

D.Condurache, V.Bulancea, M.Mareş, N.Foca - Microstructure and Friction Properties of Some Tin-Graphite Polyamide Composites, Molecular Crystals and Liquid Crystals Journal (MCLM), vol.417, 2004, p.177÷184.

V. Goanta, “Correlation between the fatigue limit of plain carbon steels and other mechanical properties”, B.I.P. Iasi, Tomul XLIX (LIII), Fasc. 1-2, 2003, pg. 67-75……12

M. Mareş - On the Mechanical and Tribological Properties of Some Particulate Reinforced Aluminum Matrix Composites, Bul. I.P.Iaşi, tom XLVIII (LII), fasc.3-4, secția Ştiința şi Ingineria Materialelor, 2002, pg.139÷144.